TOTAL ENTERPRISE ACCESS AND MOBILITY (TEAM) SOLUTION

EWP2000/ 3000 SERIES VOWLAN SMARTPHONES

Motorola's Total Enterprise Access and Mobility (TEAM) solution enables a truly mobile office experience by delivering the communication services required to stay on top of business throughout the day. Easy to deploy, the TEAM solution easily integrates into existing IT infrastructure (including the wireless LAN and the PBX) as a non-intrusive overlay, creating a single common platform for the delivery of integrated voice and data services. This appliance-based offering provides workers with mobile access throughout the enterprise WLAN to the six key voice and data business services workers need to stay productive while on the move.

- **PBX telephony**
  Extend the features and functionality of a desk phone to a mobile device.
- **Push-to-talk services**
  Empower users with robust, instant communications — including the ability to call an individual or a group (with up to 255 definable groups).
- **Corporate email, calendar, contacts and other personal information management (PIM) tools**
  Keep your workers in touch and on top of their schedule, task list and more.
- **Text messaging**
  Service within the wireless LAN coverage area enables fast and efficient communication between workers — improving response times to customer demands and changing business conditions.
- **Internet/intranet access**
  Provides on-the-spot easy access to web-based applications and information as needed throughout the business day.
- **Line of business applications**
  Support for the latest industry standard mobile operating system, Windows Mobile® 6.5, simplifies mobile access to server-based business critical applications. The EWP3100 features an integrated camera for 1D/2D light-duty bar code scanning.

FEATURES

Enterprise-grade VoWLAN smartphones
Provides comprehensive business functionality in a compact consumer-style device built to withstand all-day every day enterprise use

Professional and semi-rugged models
Cost-effectively meet the needs of different types of workers

Microsoft® operating system: Windows Mobile® 6.5
Standards-based, open, and extensible to enable robust multi-vendor business applications on-demand, right on your TEAM VoWLAN smartphones

Integrated camera (EWP3100)
Enables 1D/2D light-duty barcode scanning

128MB RAM/256MB ROM
Provides memory space required to enable robust performance for the most processing intensive applications

A SINGLE DEVICE FOR ALL COMMUNICATIONS

Featuring the EWP2000/3000 series of devices, the TEAM Solution provides workers within the enterprise with a single device to meet all their communication needs throughout the enterprise. The EWP2000 Semi-rugged VoWLAN smartphone series is designed to endure a demanding environment, offering sealing against moisture and dust as well as a rigorous drop specification. The EWP3100 adds an integrated camera for 1D/2D light-duty bar code scanning and includes BioCote® antimicrobial product protection which inhibits the growth of mildew on the surface, and a keypad that can be wiped clean.

WORLD-CLASS SERVICES AND SUPPORT

Motorola offers a complete suite of Enterprise Mobility Services to get and keep your TEAM VoWLAN smartphones up and running at peak performance.

Motorola's Advanced Services incorporate an integrated lifecycle approach — from assessment and commissioning to integration and handset staging — into a single streamlined program. And seamless integration with Motorola's Customer Services gives you the support you need, including around-the-clock access to technical support resources and rights to download entitled software releases, to help ensure that all elements of your solution work at peak performance levels.

For more information about the TEAM Solution and the EWP2000/ 3000 Series VoWLAN smartphones, please visit us on the web at www.motorola.com/team, or access our global directory at www.motorola.com/enterprisemobility/contactus

BioCote® Antimicrobial Product Protection
Inhibits growth of mold and mildew on the surface of the product

IEEE 802.11a/b/g
Compatible with multiple vendors' WLANs

Bluetooth support
Provides convenient wire-free connectivity to printers, headsets and more

TI OMAP™ 325 MHz processor
Delivers a superior combination of high performance and ultra-low power consumption

Multiple voice modes: handset, headset and speakerphone
Allows users to choose the right mode for the moment

Standard and high capacity batteries
Provides the flexibility to ensure operation throughout the business day

TEAM VOWLAN HANDSETS AT A GLANCE

	EWP2000	EWP3100
Dimensions	**EWP2000:** 4.74 in. H x 2.12 in. W x .74 in. D; 120.5 mm H x 54 mm W x 18.7 mm D **EWP2100:** 4.74 in. L x 2.13 in. W x 81 in. D; 120.5mm L x 54mm W x 20.6mm D	**EWP3100:** 4.74 in. L x 2.13 in. W x .81 in. D; 120.5mm L x 54mm W x 20.6mm D **EWP3100:** 4.74 in. L x 2.13 in. W x .81 in. D; 120.5mm L x 54mm W x 20.6mm D
Weight	**EWP2000:** 5.4 oz./152 g **EWP2100:** 5.71 oz./162 g	**EWP3100:** 5.4 oz./152 g
Battery	**EWP2000:**: BK90/1480 mAh EWP2100: BK10/1750mAh	**EWP3100:** BK10/1750mAh
Battery Life (talk/standby time)*	**EWP2000:** 7/170 hours EWP2100: 9/200 hours	**EWP3100:** 8/170 hours
Integrated Camera	—	Yes
Water Intrusion Test (Environmental Sealing): IPX2	Yes	Yes
Drop MIL 810F 516.5, IV, 4 ft./1.2m drop	16x	16x
Humidity 50°C, 90-95% RH, 8 Hours	Yes	Yes
ESD (Electrostatic Discharge)	Yes	Yes
Wipeable Keypad	Yes	Yes
BioCote® Product Protection	—	Yes
Operating Temperature 14° to 122° F/-10° to 50° C	Yes	Yes
Storage Temperature -40° to 185° F/-40° to 85° C	Yes	Yes
Product Flammability Test	Yes	Yes
Dust Test: MIL810F 510.4, III - 140 mesh silica 5hr	Yes	Yes
Vibration Test: TIA/EIA 603 para. 3.3.4	Yes	Yes
TEAM Express 1.0 Voice Client Included**	Yes	Yes
Network(s)	Single Mode – VoWLAN	Single Mode - VoWLAN

* Talk and Standby times vary based on shift and infrastructure profiles

** Please visit www.motorola.com/teamexpress for further information

EWP2000/3000 R1.72 SERIES SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Dimensions:	**EWP2000 (Standard Battery):** 4.74 in. L x 2.13 in. W .74 in. D/ 120.5mm L x 54mm W x 18.7mm D **EWP2100 (Expanded Capacity Battery):** 4.74 in. L x 2.13 in. W .81 in. D/ 120.5mm L x 54mm W x 20.6mm D **EWP3100 (Expanded Capacity Battery):** 4.74 in. L x 2.13 in. W .81 in. D/ 120.5mm L x 54mm W x 20.6mm D
Weight:	EWP2000: 5.36 oz./152 grams EWP2100: 5.71 oz./162 grams EWP3100: 5.4 oz./152 grams
Display:	2.0" Transmissive + Micro-reflective (TMR); 256K colors, 320 W x 240 L (QVGA size) with backlight brightness control (light sensor)
Backlight:	White LED backlight
Main Battery:	Rechargeable Lithium Ion: Standard Battery–1480 mAh Battery (EWP2000); Expanded Capacity Battery–1750 mAh Battery (EWP2100/3100)
Backup Battery:	Lithium Ion battery (rechargeable) 1mAh, 3V, 1 cell (not user-accessible)
Notification:	Vibrator and LED
Keypad:	Alpha Numeric
Audio:	High Audio Speaker, receiver, microphone, 2.5mm stereo headset jack w/PTT

PERFORMANCE CHARACTERISTICS

CPU:	TI OMAP™ 325 MHz processor
Operating System:	Microsoft® Windows Mobile® 6.5 Native capabilities include: Internet/Intranet access via Internet Explorer Mobile; Windows Media Player 10; text messaging clients, email/calendar/PIM
Browser:	HTML 2.0 compliant
Memory:	128MB RAM/256MB ROM
Interface:	USB 2.0
Integrated Motorola Applications:	TEAM telephony and push-to-talk (PTT) client; voice recognition, Bar Code Scanner (EWP3100)

CAMERA/DATA CAPTURE (EWP3100 ONLY)

Capture module:	Color camera with flashlight and aiming capability
Resolution:	3.2 MP with auto focus
Aiming Element (Red LED):	626 nm +/-6 nm
Illumination Element (LED):	White (Yellow diffused)
Bar Code Reading performance:	1D & 2D barcodes
Sample Symbologies Supported:	1D includes: UPC/EAN, Code 128, code 39, UCC-EAN128 and Codabar 2D includes: DataMatrix, QRcode and PDF417

USER ENVIRONMENT

Operating Temperature:	14° F to 122° F/ -10° to 50° C
Storage Temperature:	-40° F to 185° F/-40° C to 85° C
Humidity:	50 ºC, 90-95% Relative Humidity, 8 hours
Antenna:	Internal
Drop Spec:	Drop MIL 810F 516.5, IV, 4 ft. /1.2m drop: 16 drops
Sealing (water):	IPx2
Electrostatic Discharge:	±15kV air, ±8kV direct
Flammability Test:	Models passed flammability test

Dust:	MIL810F 510.4, III
Vibration:	All models: TIA/EIA 603 paragraph 3.3.4
Languages supported:	English, French, Spanish, German, Italian, Swedish, Dutch, Portuguese (Br), Korean, Japanese, Chinese (Trad.) (note - Korean, Japanese and Chinese are read-only; input is limited to English)

WLAN DATA AND VOICE COMMUNICATIONS

Transmitters:	Wi-Fi 802.11 a/b/g and Bluetooth*
Spreading Technique:	Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM)
Bands:	Bluetooth & 802.11b/g: 2.4000 - 2.4835 802.11a : 5.15-5.25, 5.25-5.35(DFS), 5.47-5.725(DFS), 5.725-5.825GHz
Max Data Rate:	Bluetooth: 3 Mbps 802.11b : 11 Mbps 802.11a,g: 54 Mbps
Antenna Type:	Single-band omni-direction antenna for Bluetooth; dual-band omni-directional antenna for Wi-Fi
WLAN Radio:	Tri-mode IEEE® 802.11a/b/g (note: 802.11a not available where prohibited or restricted)
Operating Channels:	Chan 36-161 (5180 – 5805 MHz) Chan 1-13 (2412-2472 MHz) Actual operating channels/frequencies depend on regulatory rules and certification agency
Security:	WPA with TKIP and WPA2 with AES within 802.11 interface Authenticates subscriber and devices seeking WLAN association: - User Identity via user name and password RADIUS Challenge against AAA server - Device identity via 802.1x using EAP-TLS and X509 certificate exchanges
Voice Communication:	Integrated Voice-over-IP ready (P2P, PBX, PTT), Wi-Fi™-certified, IEEE 802.11a/b/g direct sequence wireless LAN; SIP 2.0 standards support

REGULATORY

Electrical Safety:	IEC/EN 60950-1 (EWP2000 series); EN60950-1 (EWP3000 series)
Environmental:	RoHS-compliant
WLAN and Bluetooth Radio:	USA: FCC Part 15.247; 15.407; 15.109/209; 15.403 Canada: RSS-210 EU: EN 300 328; EN 301 893; EN 302 502 AS/NZS 4268:2008
RF Exposure:	USA: FCC Part 2, FCC OET Bulletin 65 supplement C FCC SAR COMPLIANCE FCC - 47CFR 2.1093 Canada: RSS-102 EU: EN 62209-1 Australian Communications Authority Radio Communications (Electromagnetic Radiation - Human Exposure) Standard
EMI/RFI:	• 47 CFR §15.247, RSS-210 • 47 CFR §15.203 & RSS - Gen. Section 7.1.4 • 47 CFR §15.109/209 & RSS-GEN section 7.2.3.2 • 47 CFR §15.403 & RSS-210A9.2 • 47 CFR §15.407 & RSS-210A9.2 • FCC 06-96 & RSS-210 Annex 9. • 47 CFR §15.407 & §15.109/209, ICES-003 RSS-GEN section 7.2.3.2 • 47 CFR §15.407 & §15.107/207, ICES-003 RSS-GEN section 7.2.3.2 • EN 301 489-1 V1.8.1 • EN 301 489-17 V1.3.2 • AS/NZS CISPR-22
Certifications:	Bluetooth Qualification testing, 802.11 Wi-Fi Alliance Logo testing, CCXv4 certification, Microsoft Logo testing
Infrastructure PBX support:	TDM PBX (via Dialogic) IP PBX: Cisco, Avaya, Nortel, Toshiba, Mitel , Vertical, Asterisk, I3
Infrastructure AP compliance:	Motorola, Cisco

WARRANTY

The EWP2000/3000 series (except accessories) are warranted against defects in workmanship and materials for a period of 12 months from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions.

TEAM VOWLAN SOLUTION EWP2XXX/EWP3XXX PERIPHERALS AND ACCESSORIES

A wide variety of accessories allows you to easily customize the TEAM VoWLAN smartphones to best meet the needs of your applications and your workers – including high capacity batteries, audio accessories, carry cases, desktop chargers and more.

Standard Battery

Extra Capacity Battery

Data Cable, Mini, USB/USB/Serial

Stereo Headset with Microphone and PTT

Earpiece w/Microphone

Earbud with Clip and PTT (Surveillance)

Rapid Travel Charger

Single Unit Desktop Charger

Multi-Unit Desktop Charger

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